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- +213> Homo sapiens
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### <400 → 11

Met Ala Leu Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Gly
1 5 10 15

Ger Arg Tyr Gl<br/>n Gl<br/>n Leu Gl<br/>n Asn Glu Glu Glu Ser Gly Glu Pro Glu 25  $\phantom{000}$  30

Gin Ala Ala Gly Asp Ala Pro Pro Pro Tyr Ser Ser Ile Ser Ala Glu 35 40 45

Ser Ala Ala Tyr Phe Asp Tyr Lys Asp Glu Ser Gly Phe Pro Lys Pro 50 60

Pro Ser Tyr Ash Val Ala Thr Thr Leu Fro Ser Tyr Asp Glu Ala Blu e5 70 75 80

Ard Thr Lys Ala Glu Ala Thr Ile Pro Leu Val Pro Gly Ard Asp Glu 85 90 95

Asy The Val Gly Arg Asp Asp The Asy Asp Ala Asy Gln Leu Ard III to the time 100

Gly Asn Asp Gly Ile Phe Met Leu Thr Phe Phe Met Ala Fhe Leu Phe 115 128

Ash Try lle Gly Phe Phe Leu Ser Phe Cys Leu Thr Thr Cer Ala Ala 197 - 198

Hy Arr Tyr Gly Ala Ile Ser Sly Phe Gly Leu Ser Leu Ile Lys Trp 145 - 150 - 150

The Let Tie Val Arg The Ber Thr Tyr The Pr. Bly Tyr The Asp Bly

<sup>&</sup>lt;:210:-11</pre>

<sup>&</sup>lt;...11> 221

<sup>&</sup>lt;212> PRT

<sup>+2:13</sup> Homo sapiens

				185										: .	
Pln	Tyr	Trp	Leu 160	Trp	Trp	Val	Phe	leu 165	Wal.	Leri	gly	Phe	190 190	Leu	Ehe
Leu	Arj	31.y 195	Phe	Ile	Asn	Tyr	Ala 200	Lys	∵ai	Arg	Lys	Met 235	Pro	114	Thr
Fhe	Ser Zit	Asn	Leu	Pro	Arg	Thr 215	Arg	Val	Leu	Fh.e	11e 223	Tyr			
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ccc	ctcg	gda t	10008	agege	et e	ccaa	geeg.	c ago	egge	egeg	ccc	ettea	agc '	tage	t aga
gata	eget	etg d	otta	actgo	at go	cegge	atga	g cc	-		_		_	gog Ala	
atg Leu	gcg	gcg	gtc	gag	ccg	gcc Ala	tgc	gge	age	agg	tac	cag	cag	ttg	cag
2,02	Ald	10	Val	GLU	PIO	nia	15	атх	261	Arg	Tyr	20 20	GIN	Leu	1111
āa⁺	gaa		gag	tot	gga	gaa	15 cct	gaa	cag	get	gca	20 ggt	gat	get	aat
aat Asn oda	gaa Glu 25 cct	10 gaa	gag Glu agc	tot Ser ags	gga Gl;	gaa Glu 30 tot	15 cct Pro	gaa Glu gag	cag Gln ago	got Ala goa	gca Ala 35 gca	ggt Gly	gat Asp ttt	get Ala gae	cct Pro
aat Asn CCa Pro 40	gaa Glu 25 cct Pro	10 gaa Glu tac	gag Glu agc Ser	tot Ser ags Ser	gga Gly att Ile 4:	gaa Glu 30 tot Ser	cct Pro gca Ala	gaa Glu gag Glu	cag Gln ago Ser	got Ala goa Ala 50	gca Ala 35 gca Ala	ggt Gly tat Tyr	gat Asp ttt Phe	got Ala gac Asp	dot Pro tac Tyr 55
aat Asn CCa Pro 40 aag Lys	gaa Glu 25 cct Pro gat Asp	gaa Glu tac Tyr	gag Glu agc Ser tot Ser	tot Ser ago Ser gag Gly 60	gga Gly att Ile 4: tt: Phe	gaa Glu 30 tot Ser cca Pro	cct Pro gca Ala aag Lys	gaa Glu gag Glu ccc Pro	cago Gln ago Ser cca Pro 65 ago	got Ala goa Ala 50 tot Ser	gca Ala 35 gca Ala tao Tyr	ggt 3ly tat Tyr aat Asn	gat Asp ttt Phe gta Val	got Ala gac Asp got Ala TO	dot Pro tac Tyr 55 aca Thr
aat Asn Coda Pro 40 aaj Lys ada Thr	gaa Glu 25 cct Pro gat Asp	gaa Glu tac Tyr gag Glu	gag Glu ager ter ter ager gtt	tot Ser ago Ser ggg 60 tat Tyr	gga Gly att Ile 4t ttt Phe gat Asp	gaa Glu 30 tot Ser cca Pro	cct Pro gca Ala aag Lys ccg Ala	gaa Glu gag Glu ccc Pro gau Glu gag	cag Gln agor cao 6 da Ard	got Ala goa Ala 50 tot Ser acconne	gca Ala 35 gca Ala tac Tyr	ggt 31y tat Tyr aat Asn gct Ala	gat Asp ttt Phe gta Val gad Glu es	got Ala gac Asp got Ala TO uct Ala	cot Pro tac Tyr 55 aca Thr
aat Asn cca Pro 40 aaj Lys aca Thr	gaa Glu 25 cot Pro gat Asp cta Leu cta	10 gaa Glu tac Tyr gag Glu ccc Fro	gag Glu agor tor ter tra ager tor gtra	tot Ser ago Ser ggg 60 tat Tyr oro	gga Gly att Ile 4: tt: Phe gat Asp usu Gly	gaa Glu 30 tot Ser cca Pro daa 310 aqa Arg	cct Pro gca Ala aag Lys sca Ala yab 95	gaa Glu gag Glu ccc Pro gau Glu gag Glu	cag Gln ager cae Prob agu das tap	got Ala goa Ala 500 tot Ser accomment to the Photon accommendation	gca Ala 35 gca Ala tao Tyr aad Lys ut;	ggt Sly tat Tyr aat Asn got at Give 100 ggg	gat Asp ttt Phe gta Val gaa Glu es var Ard	got Ala gac Asp got Ala TO dot Ala Hit Asp	cot Pro tac Tyr 55 aca Thr 45t Th:

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														titt Phe		613
							_							tgg Trp		731
							-			-				aat Asn		749
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				att Ile 220		taaa	agato	gtt t	itaiq	ggcaa	aa go	goott	iast	g		845
catt	tato	gaa t	itata	state	ca aç	gaago	caaga	a gas	abacc	atga	agga	aagtq	gaa	tcaa	gatgca	905
gaac	acaç	gag q	gaata	aatca	ac ct	gatt	taaa	a aaa	aataa	aagt	act	gttga	aaa -	agatı	catttc	965
toto	tatt	itg t	taat	taggt	ig ta	aaaat	ittta	a ata	agtta	aatg	caga	aatto	ctg	taat:	cattga	1025
atba	ittag	gtg q	gttaa	atgst	it ga	ааааа	agete	: ttq	gcaat	ccaa	gtet	igtga	atg	tatt	aataat	1085
gdat	tata	ata t	itgit	itgta	ag to	catt	itaaç	g taq	jcato	gago	cat	gtaa	etg	tagt.	cggtag	1145
āāāā	rcagt	ct:	igatt	statt	is at	taato	ddato	c to	aaaat	igaa	ott	ggaat	ita	aata	ttgtaa	1205
gata	itgta	ata 3	atget	ggat	ca ti	ittaa	aaggg	g gtt	ittat	caa	aagt	taaa	act	tttg:	ctatga	1265
stgt	gttt	tt :	gdada	ataat		atatt	ttgat	gtt	ccaaq	gtta	ato	cagaa	aat	ttat:	tcaatt	1325
atgt	atga	ias a	addtç	ggaaş	je aa	aaato	cataç	g tg.	caaaa	aata	sati	:taa	ggt	gtgg	ccaaaa	1385
ataa	igtet	itt a	aatto	ggtaa	aa ta	aataa	agcat	t taa	attt	ttta	tag	catgi	tat	tcac:	aattot	1445
gege	gtaco	ott a	attgt	cacct	a a	gggat	ttota	a aa	gatai	ttgt	dadi	tgtai	taa	aaca:	gaaage	1505
adta	iggat	las a	aaato	qaaga	ot ta	aatta	actaa	a aa	tgtaa	attc	ttga	acac'	tat	ttut	ataatt	15:5
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\*/\*: 242
\*/\*: 242
\*/\*: PPT
\*/:: Homo sapiens
\*400% 13
Met Asp His His G1

Met Asp His His Gln Pro Gly Thr Gly Arg Tyr Gln Val Leu Leu Asn 1 5 11

Slu Glu Asp Asn Ser Glu Ser Ser Ala Ile Glu Gin Pro Pro Thr Ser 20 25 30

Ash Fro Ala Fro Gln Ile Val Gln Ala Ala Ser Ser Ala Pro Ala Leu 35 40 45

Glu Thr Asp Ser Ser Pro Pro Pro Tyr Ser Ser Ile Thr Val Glu Val
50 55 60

Pro Thr Thr Ser Asp Thr Glu Val Tyr Gly Glu Phe Tyr Pro Val Pro 65  $\phantom{0}70$   $\phantom{0}75$   $\phantom{0}80$ 

Pro Fro Tyr Ser Val Ala Thr Ser Leu Pro Thr Tyr Asp Glu Ala Glu 85 90 95

Lys Ala Lys Ala Ala Ala Met Ala Ala Ala Ala Ala Glu Thr Ser Gln  $1\,\mathrm{J}00$  105  $11\,\mathrm{J}$ 

Arg Ile Gln Glu Glu Cys Pro Pro Arg Asp Asp Phe Ser Asp Ala 115 120 125

Asp Gln Leu Arg Val Gly Asn Asp Gly Ile Phe Met Leu Ala Phe Phe 130  $$135\$ 

Met Ala Phe Ile Phe Asn Trp Leu Gly Phe Cys Leu Ser Phe Cys Ile 145 150 155 160

Thr Asn Thr Ile Ala Gly Arg Tyr Gly Ala Ile Cys Gly Phe Gly Leu 165 170 175

Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser Asp Tyr Phe Thr 130 185 193

Gly Tyr Phe Asn Gly Gln Tyr Trp Leu Trp Trp Ile Phe Leu Val Leu 195 200 205

Gly Leu Leu Eue Phe Phe Arg Gly Phe Val Asn Tyr Leu Lys Val Arg 210 215 220

Ash Met Ser Glu Ser Met Ala Ala Ala His Arg Thr Ard Tyr Fhe Fhe 225 235 247

Leu Leu

S. 110 S. 14

<23115 2324

SATIAN INA

40135 Homo sapiens

<227.35

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cca	gca	stt	gaa	act	gac	tot	tida	cct	сса	oca	tat	agt	agt	att	act	195
Pro	Ala	Leu	Glu	Thr	Asp	Ser	Ser	Pro	Pro	Pro	Tyr	Ser	Ser	Ile	Thr	
				5.0					5 6					60		

gtg	gaa	gta	cct	aca	act	tca	gat	aca	gaa	gtt	tac	ggt	gag	ttt	tat	243
Val	Glu	Val	Pro	Thr	Thr	Ser	Asp	Thr	Glu	Val	Tyr	Gly	Glu	Phe	Tyr	
			ńs.					7 0					75			

000	gtg	cca	act	CCC	tat	agc	gtt	gat	acc	tat	ctt	aat	aca	tac	gat	291
Pro	Val	Pro	Pro	Pro	Tyr	Ser	Val	Ala	Thr	Ser	Leu	Pro	Thr	Tyr	Asp	
		80			-		85					90		-	-	

gaa	gat	gag	aag	gat	aaa	get	get	gca	atq	gca	gat	gca	gca	gca	gaa	339
Glu	Ala	Glu	Lys	Ala	Lys	Ala	Ala	Ala	Met.	Ala	Ala	Ala	Ala	Ala	Glu	
	95					1.00					105					

аса	tat	сав	aga	att	cag	gag	gaa	gag	tgt	cca	cca	aga	gat	gac	tta	387
Thr	Ser	Gln	Arg	Ιlе	Glr.	Glu	Glu	Glu	Сув	Pro	Pro	Arg	Asp	Asp	Phe	
117					116					120					125	

agt	gat	1C3	gab	⊋ad	ata	аста	ata	ववव	aat	gat	aac	att	tta	ata	ota	435
Ser	_	-														
261	Asp	A 1 2	nop	31.1	The C	71.7	VIL	317	мэн	De F.	13 1 7	TIG	2.10	LAG C	200	
				130					7 3 6					1.40		

gca	ttt	tto	atg	gca	ttt	att	tts	a.ac	tgg	ctt	gga		tgt	tta	taa	483
Ala	Phe	Phe	M⊖t	Ala	$\mathtt{Fh} \in$	Ile	Phe	Asn	Trp	Leu	Gly	Phe	373	Leu	Ser	
			145					153					155			

tto	tat	ato	арр	aat	acc	ata	gat	jga	agg	tat	ggt	gat	atc	tgc	gga	5.3.2
Phe	Cys	Ile	Thr	Asn	Thr	Ile	Ala	Зlу	Arg	Tyr	Gly	Ala	Ile	Cys	31;	
		160					165					177				

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Ehe	Зlу	Leu	Ser	Liu	$11\epsilon$	Lys	Trp	11e	Leu	Tle	Val	Ar ı	Pho	ser	Ası	
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Leva	7.1	Leu	Gly	1,691	Leu	Leu	The	Fhe	Arg	Gly	FER	1.	Asn	Tyr	Leu	
				200					215					223		

ada gito ada dan aig ini mad dui aig mod doi gni nai aga doa am $x \in \mathbb{C}\mathbb{R}^{3}$  .

Lys Val Ary Ash Met Ser Blu Jer Met Ala Ala Ala His Ary Thr Ary D25 230 235

tan the the that the lagagaer in alcaaberga catteether thatachaat . The Tyr Phe Phe Leu Leu . 240

ythaaattio sagatoatot qtaaabotao aastitaata yaagastas aataacagaa sis gasaaattag tgaagaaaag acggagttic gaaattgaat ggcagggtgg tittitgsita 596 caagecatti etgiteatte titaagtate tatattieat tigittigea eatatgeata 988tytycccatt taagatattt ycatatactt gatagaaacc ataaagttyt agcayttaag 1018 todagtbada titiggitaat dagigitiga talaatigaa agagitigagi ggalaaadag 1978 tottopagot tytaaatyoo attyaottot yacotyacat ttaytataat aaaaatyaaa 113%ttottaacca tqtcaaatqa tttaqtttot qqctottaqa otcatotqqc agttotacac 1198 atgaaacate tittgittata tagggigtat igaaaccige agigeigati attagaaagg 1258 atttqtcaqa tttttqaaca tqatatttac attattattt aqqaaaactc ttcctqtaaa 1318 taadbatqoa taadbtadti totqoaatqt titottagaa attqtqtooa gatagottio 1378 actaatttta aattaagtga actaaatata tatgtgtata tgtatacaca tatatataca 1438 cacacacata tatatattia qaaacqtqaq tqttaaaqat agaattigti ttaggacaaa 1498 ttttaaqaaa atqtqqqaat accaaatgto otttataaga aaaataaatt ttattttaag 1558 ggadatacta gttttaggga ttttcagatg ggaagetgda tttttaggat tgcccatett 1%1%aaqaqatott qoaqqaaqaq attytattay atattatatt tatttoattt aagataattt 1678 toaaagttaa tittotaaat aagataatto toattigigi tigiottita aaaggocaat 1°38 aaaatatott toagtatoat tgtaataatt tittagagit taattigtaa agoitagoaa 1°98 ataaaatott qtabtatqaa taqottottq otttatgaot ttaggattaa ottqtaaaaa 1858 adatatodty aastyagata tysaaaatas toattitsaa yttatyyaaa tytyttyty 1218 qcatataqqa etqtqqqqto tqtqtqtqta qtqaqaqtqt qtaqccacta ttataactqq 1278 aatiitaatii abattoataa aotaotatat tioobatoit geaaatoati tiatuibitea  $\mathcal{L}^{138}$ totoffitto officegetta tatoffitegi tithaataco aacattiaaa atgafuqtat .  $^{5.68}$ titatottit aaaottaaaa attatitaat adagotatat qqaoottata aaaitqaitt 2004 sitattiatt attagasait actastaaaa ggtasatsta astattsagg gasattitts 221% ranthiceasa sastassann tättätuutti hataapotet tetytätitti otaattiiti . ME zarrutotti dataaataaa asauttityt iirustäätä tägeet<211> 242 <212> PRT

(21)> Homo sapiens

K400> 15

Met Asp His His Gln Pro Gly Thr Gly Arg Tyr Gln Val Leu Leu Asn 1 5 10 15

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Asn Pro Ala Pro Gl<br/>n Ile Val Gl<br/>n Ala Val Ser Ser Ala Pro Ala Leu 35 40 45

Glu Thr Asp Ser Ser Pro Pro Pro Tyr Ser Ser Ile Thr Val Glu Val 50 60

Pro Thr Thr Ser Asp Thr Glu Val Tyr Gly Glu Phe Tyr Pro Val Pro  $\epsilon 5$  70 75 80

Pro Pro Tyr Ser Val Ala Thr Ser Leu Pro Thr Tyr Asp Glu Ala Glu 85 90 95

Lys Ala Lys Ala Ala Ala Met Ala Ala Ala Ala Ala Glu Thr Ser Gln  $100 \\ 05 \\ 110$ 

Arg Ile Gln Glu Glu Cys Pro Pro Arg Asp Asp Phe Ser Asp Ala 115 120 125

Asp Gln Leu Arg Val Gly Asn Asp Gly Ile Phe Met Leu Ala Phe Phe 130 135 140

Met Ala Phe Ile Phe Asn Trp Leu Gly Phe Cys Leu Ser Phe Cys Ile 145 150 155 160

Thr Asn Thr Ile Ala Gly Arg Tyr Gly Ala Ile Cys Gly Phe Gly Leu 165 170 175

Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser Asp Tyr Phe Thr  $180 \hspace{1cm} 185 \hspace{1cm} 196$ 

31y Tyr Phe Asn Gly Gln Tyr Trp Leu Trp Trp Ile Phe Leu Val Leu 195 200 205

Gly Leu Leu Leu Phe Phe Arg Gly Phe Val Asn Tyr Leu Lys Val Arg 210 220

Asn Met Ser Glu Ser Met Ala Ala Ala His Arg Thr Arg Tyr Phe Phe 225 230 235

Leu Leu

s2105 16

vnii> 2324

SDIDE DNA

<all> Home sapiens

<22008

<221> CDS

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			_									ata Ile				99
					-	-	_			-	-	gtg Val			-	147
			_		_							agt Ser	-			195
	-	-										ggt Gly				243
												eet Pro 90				291
_	_	-		-		-	-	-	_	-	-	gca Ala	_	_	_	339
			_				-		-			aga Arg	_	-		387
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												ttt Phe				483
												got Ala 173				531
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	Fhe											tgg Trp				62"
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## 225 235

tat tie tie tra ing hagagapign atbaabbbia hatibotito tiatabbaan. The Tyr Phe Phe Leu Leu  $1.40\,$ 

gtgaaattte pagatpatot gtaaacotab aaptttaata gaagaptabt aataacagaa säb qabaaattag tgaagaaaag abggagttto gaaattgaat ggbagggtgg tittigbita 898 caagedattt otgittaatto titaagiato tatattitaat tigittigoa cataigoata 958. tqtqcccatt taaqatattt qcatatactt qataqaaacc ataaaqttqt agcaqttaaq 1018 todaqtbada tittqqttaat daqtqtttqa tataattqaa agagttqaqt qgataaaday 1678 tottocagot tgtaaatgoo attgacttot gacotgacat ttagtataat aaaaatgaaa 1138 ttottaacca tgtcaaatga tttagtttot ggotottaga otcatotggs agttotacac 1198 atgaaacats tittigitata tagggigtat tgaaacctgc agtgctgatt attagaaagg 1258 attiqtoaqa tittitgaaca tqatattiac attattatti aggaaaacto ticotgiaaa 1318 taaocatgoa taaottactt totgoaatgt tittottagaa attgtgtoba gatagottto 1378 actaatttta aattaagtga actaaatata tatgtgtata tgtatacaca tatatataca 1438 cacacacata tatatattta gaaacgtgag tgttaaagat agaatttgtt ttaggacaaa 1498 ttttaagaaa atgtgggaat accaaatgto otttataaga aaaataaatt ttattttaag 1558 qqacatacta qttttaqqqa ttttcaqatq qqaaqctqca tttttaqqat tqcccatctt 1618 aagagatott geaggaagag attgtattag atattatatt tattteattt aagataattt 1678 toaaagttaa tittotaaat aagataatto toattigigi tigiotiitta aaaggobaat 1738 agaatatott toagtatoat tytaataatt tittagaytt taatiitytaa agottagoaa 1798ataasatott gtactatgas tagottotty otttatgaot ttaggattas ottgtasasa 1858 apatatopiq aactuaqata tuqaaaaatao toattitoaa qitatqqaaa tutitigiq 1918 geatatagga etgtqqqqte tgtqtqtqta gtgagagtgt gtageeacta ttataactgg 1978 satttaattt acattoataa actactatat ttoccatott gcaaarcatt ttatqtotoa 2036 totattitic outtourita tatotitugi titigaatako aacattiada atgatgatat 20% k tttatotttt aaacttaaaa attatttaat acagetatat ggaeettata aaattgattt 2158 ottatttatt attagadatt adtagtaaaa ugtavatota adtattoagg gadattiiin 2219 watttowaaa aaataaaatt tattatuoii tataaceiri totutaitti etaattiiii 2008 pattytotti gataaataba abagtiitu, tituotaata tagoo. -2324

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<2111> 336

:213> Homo s	sapiens									
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Asn Ala Glu 35	Val Ser	Ala Ala	Ala /	Ala G	Sly Ala	Thr	Gly 45	Ser	Glu	Glu
Leu Pro Pro 50	Gly Asp	Arg Gly 55		Arg A	Asn Gly	Gly 60	Gly	Arg	Gly	Pro
Ala Ala Thr 65	Thr Ser	Ser Thr 70	Gly V	Vāl A	Ala Val 75	Gly	Ala	Glu	His	Gly 80
Glu Asp Ser	Leu Ser 85	Arg Lys	Prc #	-	Pro Glu 90	Pro	Gly	Arg	Met 95	Asp
His His Gln	Pro Gly 100	Thr Gly	-	Tyr G 105	Sln Val	Leu	Leu	Asrı 110	Glu	Glu
Asp Asn Ser 115	Glu Ser	Ser Ala	Ile 0 120	Glu G	Gln Pro	Pro	Thr 125	Ser	Asn	Pro
Ala Pro Gln 130	Ile Val	Gln Ala 135	Val S	Ser S	Ser Ala	Pro 140	Ala	Leu	Glu	Thr
Asp Ser Ser 145	Pro Pro	Pro Tyr 150	Ser S	Ser I	lle Thr 155	Val	Glu	Val	Pro	Thr 160
Thr Ser Asp	Thr Glu 165	Val Tyr	Gly (		Phe Tyr 170	Pro	Val	Pro	Pro 175	Pro
Tyr Ser Val	Ala Thr 180	Ser Leu		Thr T 185	lyr Asp	Glu	Ala	Glu 190	Lys	Ala
Lys Ala Ala 195	Ala Met	Ala Ala	Ala 2 200	Ala A	Ala Glu	Thr	3er 205	Glrı	Arg	Ile
Gin Glu Glu 210	Glu Cys	Pro Pro 215	Arg A	Asp A	Asp Phe	3er 220	Asp	Alā	Asp	Gln
Leu Arg Val 225	Gly Asn	Asp Gly 230	Il€∷i	Phe M	Met Leu 235	Ala	₽h∈	Phe	Met	Ala 240
Phe Ile Phe	Asn Trp 245	Leu Gly	Phe :		Leu Ser 250	Phe	Cys	Ile	Thr 255	Asn
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Leu Ser Gly Fhe Gly Ala Val Asn Sys Fro Tyr Thr Tyr Met Ser Tyr 185 - 185

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led led 31m Thr Met Asp Met Ile Ile Ser Lys Lys Lys Ard Met Ala 195 - 200

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His Tyr Ser Ser Phe Gly Ser Ser Gly Gly Ser Gly Gly Gly Ser Met

Met Gly Gly Glu Ser Ala Asp Lys Ala Thr Ala Ala Ala Ala Ala Ala 105

Ser Leu Leu Ala Asn Gly His Asp Leu Ala Ala Ala Met Ala Val Asp

Lys Ser Asn Pro Thr Ser Lys His Lys Ser Gly Ala Val Ala Ser Leu 130

Lou Ser Lys Ala Glu Arg Ala Thr Glu Lou Ala Ala Glu Gly Gln Lou 150 155

Thr Leu Gln Gln Phe Ala Gln Ser Thr Glu Met Leu Lys Arg Val Val

Gln Glu His Leu Pro Leu Met Ser Glu Ala Gly Ala Gly Leu Pro Asp 185

Met Glu Ala Val Ala Gly Ala Glu Ala Leu Asn Gly Gln Ser Asp Phe

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tad doc atg dag Tyr Pro Met Gln 245					
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tgo gag dag tgo Cys Glu Gln Cys 275				His Gln I	
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- Lys Lys Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Lys Ala Thr Cys
- Leu Leu Asp Arg Lys Thr Val Ala Leu Lys Lys Val Gln Ile Phe Glu
- Met Met Asp Ala Lys Ala Arg Gln Asp Cys Val Lys Glu Ile Gly Leu
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- Ile Glu Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly
- Asp Leu Ser Gln Met Ile Lys Tyr Phe Lys Lys Gln Lys Arg Leu Ile 135
- Pro Glu Arg Thr Val Trp Lys Tyr Phe Val Gln Leu Cys Ser Ala Val 150 155
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- Asn Val Phe Ile Thr Ala Thr Gly Val Val Lys Leu Gly Asp Leu Gly
- Leu Gly Arg Phe Phe Ser Ser Glu Thr Thr Ala Ala His Ser Lou Val
- Gly Thr Pro Tyr Tyr Met Ser Pro Glu Arg Ile His Glu Ash Gly Tyr
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- Ala Ala Leu Gin Ser Pro Phe Tyr Gly Asp Lys Met Ash Leu Fhe Ser
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<!!!!! # m: sapiens</pre>

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Pro Ser Pro Tyr Gly Gln Pro Gly Tyr Fro His Gly Pro Ser Erc Tyr 50 60

Pro Gln Gly Gly Tyr Pro Gln Gly Pro Tyr Pro Gln Gly Gly Tyr Fro  $\epsilon 5$ 

Gin Gly Pro Tyr Pro Gin Glu Gly Tyr Pro Gin Gly Pro Tyr Pro Gin 85 90 95

Gly Gly Tyr Fro Gln Gly Pro Tyr Pro Gln Ser Pro Phe Pro Pro Asn 100 105 110

Pro Tyr Gly Glr. Pro Gln Val Phe Pro Gly Gln Asp Pro Asp Ser Pro 115 120 125

Gln His Gly Asr. Tyr Gln Glu Gly Pro Pro Ser Tyr Tyr Asp Asn 130 135 140

Gln Asp Phe Pro Ala Thr Asn Trp Asp Asp Lys Ser Ile Arg Gln Ala 145 150 155 160

Phe Ile Arg Lys Val Phe Leu Val Leu Thr Leu Gln Leu Ser Val Thr 165 170 175

Leu Ser Thr Val Ser Val Phe Thr Phe Val Ala Glu Val Lys Gly Phe 180 185 190

Val Arg Glu Asn Val Trp Thr Tyr Tyr Val Ser Tyr Ala Val Phe Phe 195 205

Ile Ser Leu Ile Val Leu Ser Jus Jys Gly Asp Phe Ard Ard Lys His
210 215 220

Pro Trp Ash Leu Val Ala Leu Ser Val Leu Thr Ala Ser Leu Ser Tyr 225 - 230 - 239 - 240

Met Val Gly Met Ile Ala Ser Phe Tyr Ash Thr Slu Ala Val Ile Met 148

Also valuably file ThroThroAla values the ThroValuable like the Corolla value  $\mathcal{L} \in \mathbb{R}^{n}$ 

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Thr Dys Phe Leu	Ala Val . 125	Asp Thr Alb	. Leu leu le 330	u Bly Asn	Lys Bin 335
leu Ger Leu Ger 341	Pro Glu -	Glu Tyr Val 348		a Leu Asn 350	Leu Tyr
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Val Ser Gly Asp 10 ccc dag cca dcc Pro Gln Pro Pro 25 cct tad cca dag	Asn Tyr 1  atg ccc c  Met Pro 1  30  ccc cat 1  Fro Pro 1  48	Pro Pro Pro 15 coc tat got Pro Tyr Ala tto dag coc The Gln Fro	Asn Pro G1 2  cag cet ce G1n Pro Pr 35  tee cee ta ser Pro Ty 50  caa ggg gg	y Tyr Pro C d tad det o Tyr Pro d ggt dag r Gly Gln d tad dia	giy Gly  ugg goe 210 Gly Ala 40  cca ggg 258 Pro Gly 55
Val Ser Gly Asp 10  ccc cag cca ccc Pro Gln Pro Pro 25  cct tac cca cag Pro Tyr Pro Gln tac ccc cat ddc Tyr Pro His Gly	Asn Tyr 1  atg ccc c  Met Pro 1  30  ccc cct f  Fro Pro 1  45  ccc ago c  Fro Ser 1	Pro Pro Pro 15  coc tat got Pro Tyr Ala  tto dag coc Phe Gln Pro  cod tad coc Pro Tyr Pro 65	Asn Pro G1 2  cag cet ce G1n Pro Pr 35  tee cee ta Ser Pro Ty 50  caa geg gg	y Tyr Pro C c tao cot o Tyr Pro c ggt cag r Siy Sin c tao coa y Tyr Pro c c c c c c c c c c c c c c c c c c c	giy Gly  ugg goe 210 Gly Ala 40  cca ggg 258 Pro Gly 55  can agt 306 31n Gly
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tgc Cys 265 tca Ser	Asn 250 tto Pho tgo Cys	Thr acc Thr atg Met	gto val ggo Gly	Ala gto Val gtg Val 285	Val atc Ile 270 ctc Leu	11e 255 tto Phe ctg Leu	Met too Ser gtg Tal	Ala atg Met ago Ser	Val cag Gln atg Met 290	accorner 275 gtg Valuato	The 260 age Arg gtg Val	tac fyr ctc Leu	Thr gad Asp tto Phe	Ala ttc Phe atc Ile 245	acc Thr 280 tto Phe	930
tgc Cys 265 toa Ser gcc Ala	Asn 250 ttn Phe tgc Cys	Thr acc Thr atg Met sto Leu	gto val ggo Gly tgo Gys 300 qgo Gly	Ala gto Val gtg Val 285 ato 11e	atc Ile 270 oto Leu tto Phe	Ile 255 tts Phe ctg Leu ats ile	Met tec ser gtg Tal egg Arg	Ala atg Met ago Ser aac Asn 305	val cag sln atg Met 290 cgc Arg	acc Phr 275 gtg Val atc Ile	Tie 260 age Arg gtg Val etg Leu	thr tac Tyr sto Leu gag Glu	Thr gas Asp tto Phe ats Ile 310	Ala tto Pho atd Ile 295 gtg Val	acc Thr 280 tto Phe tac Tyr	930 976
tgc Cys 265 toa Ser gcc Ala	Asn 250 tto Phe tgo Cys att Ile	accombr atg Met sto Leu stg Leu stg	gto val ggo Gly tgo Gys 300 ggo Gly otg	Ala gto Val gtg Val 285 ato Ile gct Ala	atc Ile 270 oto Leu tto Phe	Ile 255 tto Phe ctg Leu atc Ile ctc Leu	Met tec ser gtg Tal ogg Arg	Ala atg Met age Ser aac Asn 305 acc Thr	val cag sln atg Met 290 cgc Arg	acc Phr 275 gtg Val atc Ile ttc Phe	The 260 age Arg gtg Val ctg Leu age	thr tac Tyr cto Leu gag Glu gca Ala 305	Thr gac Asp tto Phe ato Ile 310 atq Val	Ala tto Pho atd Ile 295 gtg Val dar Asp	add Thr 280 tto Phe tac Tyr	930 976 1026
tgc Cys 265 toa Ser gcc Ala cag	Ash 250 tto Phe tgo Cys att Ile toa ser ctu	Thr acc Thr atg Met oto Leu otg Leu ot	gto Val ggo Gly tgo Cys 300 qqo y ctg	Ala gto Val gtg Val gtg Val ato Ile got Ala ggg Val The	atc Ile 270 oto Lou tto Phe ctq Leu aac Asn	Ile 255 tto Phe ctgu atcu atcu aagus 335 ctg	Met toor gtg: gtg: ogggArg troes: cag. cln	Ala atg Met age ser aac Asn 305 acc Thr ctg Len	cag sln atg Met 290 cgc Arg tgc ter	acc Phr 275 gtg Val atc Ile ttc Fhe cta Len	Ile 260 age Arg gtg Val ctg Leu ager 340	thr tac Tyr ctou gag Glu gag Glu gaa ana ana ana ana	Thr gac Asp tto Phe ato Ile 310 otg TA1 gaa Glu	Ala tto Pho ato Ile 295 gtg Val dar Asp dag Glu	Value according to the tac Tyr according that Tyr	930 976 1026 1174

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-1400> 43

Met Ser Asp Glu Arg Glu Val Ala Glu Ala Ala Thr Gly Glu Asp Ala 1 5 10 15

Ala Ala Ser Glu Gly Ala Ala Ala Ala Ala Ala Ser Pro Pro Leu Leu 35 40 45

Arg Cys Leu Val Leu Thr Gly Phe Gly Gly Tyr Asp Lys Val Lys Leu 50 60

Gin Ser Arg Pro Ala Ala Pro Pro Ala Pro Gly Pro Gly Gln Leu Thr -65 70 75 80

Leu Arg Leu Arg Ala Cys Gly Leu Asn Phe Ala Asp Leu Met Ala Arg 85 90  $^{-95}$ 

31n Gly Leu Tyr Asp Arg Leu Pro Pro Leu Fro Val Thr Fro Gly Met 100 105 110

31m Gly Ala Gly Val Val Ile Ala Val Gly Glu Gly Val Ser Asp And 115 126

Lys Ala Giy Asp Arg Val Met Val Leu Asn Arg Ser Gly Met Trp Gln 130 140

Fig. Glu Val Thr Val Pro Ser Val Gln Thr Phe Leu Ile Pro Slu Ala 145 - 150 - 185

Mot The Pho Glu Glu Ala Ala Ala Leu Leu Val Ash Tyr Ilo Thr Ala leb 171

<sup>&</sup>lt;.210> 43

<sup>-...11&</sup>gt; 393

<sup>+212&</sup>gt; PRT

<sup>&</sup>lt;:213> Homo sapiens

Tyr Met Val Leu Phe Asp Phe Gly Ash Leu Bin Fru Bly His Jer Val Led Val His Met Ala Ala Siy Siy Va. Siy Met Ala Ala Val Sin Isd 195 - 200 - 200 Dys Arg Thr Val Glu Ash Val Thr Val Phe Gly Thr Ala Ser Ala Ser Lys His Glu Ala Leu Lys Glu Asn Gly Val Thr His Fro Ile Asp Tyr 235 His Thr Thr Asp Tyr Val Asp Glu Ile Lys Lys Ile Ser Pro Lys Gly Val Asp Ile Val Met Asp Pro Leu Gly Gly Ser Asp Thr Ala Lys Gly Tyr Asn Leu Leu Lys Prc Met Gly Lys Val Val Thr Tyr Gly Met Ala Asn Leu Leu Thr Gly Prc Lys Arg Asn Leu Met Ala Leu Ala Arg Thr 295 300 Trp Trp Asn Gln Phe Ser Val Thr Ala Leu Gln Leu Leu Gln Ala Asn 305 310 315 Arg Ala Val Cys Gly Phe His Leu Gly Tyr Leu Asp Gly Glu Val Glu 330 Leu Val Ser Gly Val Val Ala Arg Leu Leu Ala Leu Tyr Asn Gln Gly 345 350 His Ile Lys Pro His Ile Asp Ser Val Trp Pro Phe Glu Lys Val Ala 360 Asp Ala Met Lys Gln Met Gln Glu Lys Lys Asn Val Gly Lys Val Leu Leu Val Fro Gly Pro Glu Lys Glu Asn <210> 44 <211: 2396 <212> PNA k213> Homo sapiens 4022 ( 42214 (202 <2225 \*\*50\*...(1228\*</pre> 4 7 7 4 4 4 agor migoac torpodational interproduct into modedaga into transcolation on ago 189 Met Ser Asp iga gir yar ing ing ing rar ing ranggar ang arawara arawar ing tom tom tom gama . I k

Fig. Are the Ual Ala She Ala Ala The Shy She Asp Ala See See Fig. .  $\label{eq:condition} S$ 

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Thr gad Glu ctc Leu 180	Val gaa Glu 165 ttt Phe	Pro 150 gct Ala gac Asp	get Ala tto Phe	yal god Ala gdo Sly	ttq Leu a4c Asn 185	Thr ote Leu 170	Phe 155 gtc Val cag gin	ctg Leu aat Asn cct Pro	tac Tyr gdc Sly	Pro att Ile cac His 190	aca Thr 175 age ser	Ala 160 gdc Ala gtc Val	atg Met tac Tyr tty Leu	Thr atg Met gta Val	Phe sto Value oac His 195	586
Thr gad Glu oto Lou 180 atd Met	Val gaa Glu 165 ttt Phe gct Ala	Pro 150 gct Ala gac Asp gca Ala	got Ala tto Phe ggo; Gl;	yal god Ala gdd Sly ddt Gly 200	ttq Leu aac Asn 185 gtg Tal	Thr ote Leu 170 cta Leu	Phe 155 gtc Val cag 31n atg Met	ctg Leu aat Asn cct Pro	tac Tyr gdc Sly gcc Ala 205	Pro att Ile cac His 190 gta Val	ada Thr 175 ago Ser cag	Ala 160 gcc Ala gtc Val ctg Leu	atg Met tac Tyr tty Leu tgc Cys	Thr atg Met gta Val egt Ard	Phe sto Value Cac His 195 aca Thr	586 634
Thr gad Glu oto Lou 190 atd Met	yaa Glu 165 ttt Phe gct Ala	Pro 150 gct Ala gac Asp gca Ala ast Asn	Ser got Ala tto Phe ggy gay gas an	yal god Ala god Sly oot Sly ant thr	ttq Leu a4c Asn 185 gta Ta1	Thr  otc Leu 170 ota Leu ogt 317	Phe 155 gto Val cag 31n atg Met	ctg Leu aat Asn cct Pro gct Ala ard Thr	tac Tyr gdc Sly gcc Ala 205 acc	Product Cac His 190 gtd Val	aca Thr 175 age cag Cln	Ala 160 gcc Ala gtc Val ctg Leu	atg Met tac Tyr tty Leu tgc Cys	Thr atg Met gta Val ogt Ard CHIS	Phe sto Val cac His 195 aca Thr	586 634 687

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otg aaa ooo atg Leu Lys Pro Met								-	922
acg ggo occ asa Thr Gly Pro Lys 295									970
cag tto ago gtg Gln Phe Ser Val 310	-								1018
tgt ggc ttc cac Cys Gly Phe His 325				Glu Va					1066
ggt gtg gtg gcc Gly Val Val Ala 340	-		-					-	1114
occ cac att gac Pro His Ile Asp									1162
aaa cag atg cag Lys Gln Met Gln 375									1210
ggg oca gag aag Gly Pro Glu Lys 390		tagggcaa	agt ggcto	gtgaga	ocotag	agac			1258
Gly Pro Glu Lys	Glu Asn				-			agcct	
Gly Pro Glu Lys 390	Glu Asn gtiggg aa	agetaegtt	i atgitga	goda o	cagactt	gic a	tttc.		1318
Glý Pro Glů Lys 390 cagogaaggg agaac	Glu Asn gttggg aa	agotacgit octocccc	i otgitigo g aagitich	goda od totg to	cagactt ggtgatg	дс а 'ас с	tttc gata	tecce	1318
Glý Pro Glú Lys 390 cagogaaggg agaac ctgtoataat goto	Glú Asn gttggg aa tgeeet ee testga ee	agotacgtt octocosco ototgaaga	i otgitge g aagtio a ggiigge	goda od totg to gaag to	cagacit ggtgatg	go a ac c tg g	tttc gotc atgt	teccc ctggg	1318 1378 1438
Gly Pro Glu Lys 390 cagogaaggg agaac ctgtoataat goto tgcccctccc cgct	Glú Asn gttggg aa tgeeet ee teetga ee caggga ge	agotacgtt octocoocc ototgaaga ggtoagaga	i otgitgo g aagito a ggitggo	goda od totg to gaag to	pagadit ggtgatg gadbatt ottooly	go a ac c tg g	tttc goto atgt	teece etggg	1318 1376 1438 1498
Gly Pro Glu Lys 390 cagogaaggg agaac ctgtoataat goto tgcccotccc cgcc ccctgccaag gcga	Glú Asn gttggg aa tgccet co tootga co caggga go tgctgo tt	agotacgtt ootooooog ototgaaga ggtoagagg ottgtgooa	c otging g aagino a gginggs g gaggoos a aggina	goda bo totg to gaag to ggot go goda g	pagadit ggtgatg gadbatt bttbotg	go a ac c tg g	ttto goto gatgt gaag gagag	tcccc ctggg ccttt	1318 1378 1438 1498 1558
Gly Pro Glu Lys 390  cagogaaggg agaac  ctgtoataat goto  tycocotoco egot  coctyccaag gogac  coccyggoot goty	Glú Asn gttggg aa tgccet co tostga co caggga go tgctgs tt	agotacgtt octococco ototgaaga ggtoagago ottgtgoos	c otging g aaginol a gginggs g gaggoos a agginas o oogidas	goda po totg to gaag to goda g goda g	pagadit ggtgatg gadbatt ottoolog toodool	go a cac continue to continue	ttto goto latgt lacac tgto	ctggg ccttt gttsca	1318 1376 1438 1498 1556 1618
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<211> 393

<212> PRT

<213> Homo sapiens

<400> 45

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Ser Ser Pro Pro Pro Lys Thr Glu Ala Ala Ser Asp Pro Gln His Pro
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Ala Ala Ser Glu Gly Ala Ala Ala Ala Ala Ala Ser Pro Pro Leu Leu 35 40 45

Arg Cys Leu Val Leu Thr Gly Phe Gly Gly Tyr Asp Lys Val Lys Leu 50 60

Gin Ser Arg Pro Ala Ala Pro Pro Ala Pro Gly Pro Gly Gin Leu Thr 65 75 80

Leu Arg Leu Arg Ala Cys Gly Leu Asn Phe Ala Asp Leu Met Ala Arg 85 90 95

Gln Gly Leu Tyr Asp Arg Leu Pro Pro Leu Fro Val Thr Pro Gly Met 120 120 120

Glu Gly Ala Gly Val Val Tie Ala Val Gly Glu Gly Val Ser Asp Arg 115 - 120 - 125

Lys Ala Gly Asp Ard Val Met Val Leu Ash Ard Ser Gly Met Trp Gln 135 - 140

Also Singular Throttal Pro-Ser Val Sing ThroPhe Levi II+ Fro Sing Alam 145  $_{\odot}$  . The  $_{\odot}$ 

Met Thr Fhe Giu Giu Ala Ala Ala Leu Leu Yal Ash Fyr Ile Thr Ala  $10^{\circ}$ 

Tur Met Val Leu Phe Asp Phe Nly Ash Leu Sln Pro Nly His Ser Val 181 - 181 - 181

Led Tai His Met Ala Ala Riy Riy Tai Siy Met Ala Ala Jai Rib Led 186

Tys Arr Thr Val Glo Agn Val Thr Val The Gly Thr Ala Cer Ala Gor

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Val Asp ile Val Me	t Asp Fro Leu Gly	Bly Ber Asp Thr	Ala Lys Gly
260	265		200
Tyr Asn Leu Leu Ly	s Fro Met Gly Lys	Val Val Thr Tyr	Gly Met Ala
275	260	285	
Asn Leu Leu Thr Gl	y Pro Lys Arg Asn	Len Met Ala Leu	Ala Arg Thr
296	295	300	
Trp Trp Asn Gln Fh	e Ser Val Thr Ala	Leu Gln Leu Leu	Gin Ala Asn
305	310	315	320
Arg Ala Val Cys Gl 32	-	Tyr Leu Asp Gly	Glu Val Glu 335
Leu Val Ser Gly Va	l Val Ala Arg Leu	Leu Ala Leu Tyr	Asn Gln Gly
340	345		350
His Ile Lys Pro Hi	s Ile Asp Ser Val	Trp Pro Phe Glu	Lys Val Ala
355	360	365	
Asp Ala Met Lys Gl	n Met Gln Glu Lys	Lys Asn Val Gly	Lys Val Leu
370	375	380	
Leu Val Pro Gly Fr 385	o Glu Lys Gln Asn 390		
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	-	gct	gct	gaa	ttg	ata	ato	aat	tac	att	aca	qee	tac	atq	gto	586
Glu	Glu 165	Ala	Ala	Ala	Leu							-			Val	
ata	165 ttt	gac	ttc	gge		Leu 170 cta	Val cag	Asn	gg:	Ile cac	Thr 175 agc	Ala	Tyr ttg	Met gta	cac	634
ctc Leu 180 atg	165 ttt Phe gct	gac Asp gca	ttc Phe ggg	ggc ggc	Leu aac Asn	Leu 170 cta Leu ggt	Val cag Gln atg	Asn cct Pro	Tyr gg: Gly	cac His 190	Thr 175 agc Ser	Ala gtc Val	Tyr ttg Leu tgo	Met gta Val	cac His 195	€34 682
ctc Leu 180 atg Met	165 ttt Phe gct Ala	gac Asp gca Ala	ttc Phe ggg Gly	ggc Gly ggt Gly 200	Leu aac Asn 185	Leu 170 cta Leu ggt Gly	Val cag Gln atg Met	Asn cct Pro gct Ala	Tyr ggc Gly gcc Ala 205	The cac His 190 gtg Val	Thr 175 agc ser caq Gln	Ala gtc Val ctg Leu	ttg Leu tgc Cys	Met gta Val cqt Arg 210	cac His 195 aca Thr	
otc Leu 180 atg Met gtg Val	165 tit Phe got Ala gas G.u	gac Asp gca Ala aat Asn	ttc Phe ggg Gly gtg Val 215	ggc Gly ggt Gly 200 asa Thr	Leu aac Asn 185 gtg Val	Leu 170 cta Leu ggt Gly ttc Phe	Val cag Gln atg Met gga Gly	Asn cct Pro gct Ala asg Thr 220 cat	ggc Gly gcc Ala 205 gcc Ala	cac His 190 gtg Val tcg ser	Thr 175 agc ser caq Gln gcc Ala	Ala gtc Val ctg Leu agc Sor	ttg Leu tgo Cys aag Lys 225	Met gta val cqt Arg 210 cac Eis	cac His 195 aca Thr gag	682
oto Leu 180 atg Met gtg: gca Ala	165 tit Phe got Ala gag G.u ctal	gac Asp gca Ala aat Asn aag 178	ttc Phe ggg Gly gtg Val 215 gag Glu	ggc Gly ggt Gly 200 aca Thr aat Asn	aac Asn 185 gtg Val gtg Tal	Leu 170 cta Leu ggt Gly ttc Phe	Val cag Gln atg Gly achr 235	Asn cct Pro gct Ala acg Thr 220 cat His	ggc Gly gcc Ala 205 acc Ala ccc 9rc	cac His 190 gtg Val tcg Ser atc	Thr 175 agc Ser cad Gln doc Ala dac Asp	Ala gtc Val ctg Leu ago Ser tat Tyr 240	ttg Leu tgc Cys aad Lys 225 cac His	met gta Val cqt Arg 210 cac His	cac His 195 aca Thr gagu actr	682 T30
oto Leu 180 atg Met gtgl gca Ala acp	165 tht Phe got Ala gag Glu ctar tar T45 atg	gac Asp gca Ala aat Asn aag 230 graf Tul	ttc Phe ggg Gly gtg Val 215 gag Glu gat Asp	ggc Gly ggt Gly 200 aca Thr aat Asn gan 314	aac Asn 185 gtg Val gtg 317 atc 11e	Leu 170 cta Leu ggt Gly ttc Phe gtc Val	Valuaggin atgray acres 123 aars 153	Asn cot Pro got Ala acg Thr 220 cat His	ggc Gly gcc Ala 205 acc Ala ccc ser	cac His 190 gtg Val tog Ser atc 11e cot Fro	Thr 175 agc Ser cad Gln doc Ala dac Asp	Ala gtc Val ctg Leu agor tat Tyr 240 ria 117	ttg Leu tgc Cys aad Lys 225 cac His	met gta Val cqt Arg 210 cac His	cac His 195 aca Thr gain actr	682 -30 8

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aaa dag atg dag gag aag aag aat gtg ggd aag gtd otd otg gtt oda Lys Gln Met Gln Glu Lys Lys Asn Val Gly Lys Val Leu Leu Val Fro 375 380 385	1210
ggg cca gag aag sag aas tagggsaagt ggetgtgaga cestagagas Gly Pro Glu Lys Gln Asn 390	1258
cagegaaggg agaagttggg aagetaegtt etgttggeea eeagaettge attteageet	1318
otyteataat getetyeeet eesteeseg aagttetety tygtgatgas egeteteses	1378
tgecectoes egetteetga eetetgaaga ggttgggaaq tgacsatttg gatgtetggg	1438
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<211> 136 4212> PRT 21+> Homo sapiens <400> 47 Met lie Ser Leu Thr Asp Thr Gin Lys lie Gly Met Gly Leu Thr Gly Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile Leu Phe Phe Asp Lys Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val Ala Gly Leu Ala Phe 40 Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe Phe Gln Lys His Lys 55 Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val Phe Val Val Leu Ile Gly Trp Pro Leu Ile Gly Met Ile Phe Glu Ile Tyr Gly Phe Phe Leu 90 Leu Fhe Arg Gly Phe Phe Pro Val Val Val Gly Phe Ile Arg Arg Val 100 105 Pro Val Lou Gly Ser Leu Lou Ash Lou Pro Gly Tle Arg Ser Fhe Val 12.0 Asp Lys Val Gly Glu Ser Asn Asn Met Val K210N 48 K011N 09M6 K212N DMA <213> Homo sapiens < 12.15</p> <2.715 3778 \*/225 (111.1.1.62\*) 44 14 analidiga na dotot ninor quantatir nonndomi na officiologia of califfonio k as not arrow the engine of an encountrate entains and a satisfication of the 11%tta arm mar gym ram aga att oma atmomma tta gra mma fil 143 of 4

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ttg ata ggc atg atc ttc gaa att tat gga ttt ttt ctc ttg ttc agg Leu Ile Gly Met Ile Fhe Glu Ile Tyr Gly Phe Fhe Leu Leu Phe Arg 85 99 95	40€
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gga too oto ota aat tta oot gga att aga toa ttt gta gat aaa gtt - 9 Gly Ser Leu Leu Asn Leu Pro Gly Ile Arg Ser Phe Val Asp Lys Val 120 - 125 - 130	502
gga gaa age aac aat atg gta taacaacaag tgaatttgaa gactcattta - 9 Gly Glu Ser Asn Asn Met Val 135	553
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K010% 51
K211% 863
K212% PRT
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<sup>&</sup>lt;213> Homo sapiens

k400% 81

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Leu Fro Met Val Fle Leu Leu Leu Gln His Gly Ala Asp Pro Thr Leu 130 135 140

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His Mot Fr. 11e 11e Ala Tyr Leu 11e Ser Lys Sly Yin Ser Val Asn  $165\,$ 

Met Thr Asp Ual Ash Bly Bln Thr Fra Leu Met Leu Ger Ala His Lys (1+)

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Leu	Ser	Ser 355	Val	Phe	Trp	Ile	Fhe 360	Меt	Thr	Trp	Fhe	11e 365	Leu	Phe	Phe
Pro	Asp 370	Leu	Ala	Gly	Ala	Pro 375	Phe	Туr	Phe	Ser	Phe 380	Ile	Phe	Ser	Ile
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Phe	Thr	Lys	Ala	Ser 405	Glu	Glu	Glu	Lys	Lys 410	Val	Asn	Ile	Ile	Thr 415	Leu
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Ile Val	Arg Ala 450	Lys 455 Arg	420 Pro Tyr	Leu Asp	Arg 31n	Ser His 455	Leu 440 Cys	425 His Leu	Cys	His	Val 317 460	Cys 445 Arg	430 Asn Cys	Cys	Cys Gly
The Val The	Arg Ala 450 Gly	Lys 435 Arg Asn	420 Pro Tyr His	Leu Asp His	Arg Gln Tyr 470	Ser His 455 Tyr	Leu 440 Cys	425 His Leu Phe	Cys Trp The	His Thr	Val Gly 460 The	Cys 445 Arg Fhe	Asn Cys Leu	Cys Tle Ser	Cys Gly Met 480
The Val The	Arg Ala 450	Lys 435 Arg Asn	420 Pro Tyr His	Leu Asp His	Arg Gln Tyr 470	Ser His 455 Tyr	Leu 440 Cys	425 His Leu Phe	Cys Trp The	His Thr	Val Gly 460 The	Cys 445 Arg Fhe	Asn Cys Leu	Cys Tle Ser	Cys Gly Met 480
Tie Val The 405 Val	Arg Ala 450 Gly	Lys 455 Arg Asn Gly	420 Pro Tyr His	Leu Asp His	Arg Gln Tyr 470	Ser His 455 Tyr	Leu 440 Sys Tie	425 His Leu Pho	Cys Trp The The 490	His Thr Leu 173	Val Gly 460 The	Cys 445 Arg The	Asn Cys Leu	Cys lle Ser Ser 495	Cys Gly Met 480 His
The Val	Arg Ala 450 Gly Cys Ala	Lys 435 Arg Asn Sly Thr	420 Pro Tyr His Trp Thr	Leu Asp His 110 485 Fho	Arg Gln Tyr 470 Lle	Ser His 455 Tyr Tyr Slu	Leu 440 Cys Tie Gly Asp	425 His Leu Pho Ser Siy 505 Lou	Cys Trp The The The Ten Ty:	His Thr Let 178 Ile	Value of the Tyr The Louis	Cys 445 Arg The Leu Cyr	Asn Cys Lou Ser Lou Lou	Cys Ile Sor Sor 445 Asn	Cys Gly Met 480 His
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<400> 55

Met Ala Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile Met 1 5 10 15

Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys Pro\$35\$

Asp Tie Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val Leu 50 60

Cys Ala Ser The Met Ser Phe Gly Val Lys Arg Arg Trp The Ala Leu 65 70 75 80

Gly Ala Ala Leu Gin Lou Ala Ile Ser Thr Tyr Ala Ala Tyr Ile Gly 85 90 95

Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser Arg 100 100

Thr Val Ala Ile Ile Gly Gly Fhe Leu Val Leu Ala Ser Gly Ala Sly 115 120 125

31% Leu Tyr Arg Arg Lys Pro Arg Ser Arg Jer Leu Un der Tho My 130 - 140

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<2110 % 5.9

<2115 272

<21125 PRT

<2135 Homo sapiens

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Mot Met Ile His Gly The Glm Ser Son His And Asy The Tys The Try

Fro Trp Lys tou Thr Ala Ser Lys Thr His The Mot Lys Jor Ala Asp.  $\mathbb{Z}^n$ 

Tall the Lys Len Ala Asp. The Len Bis Met. Fro Ser Len Fro The Met. 4%

Med the dry Amp Amn Val Leu Arrille Un His dry Jer Hy The Try

the the Ebe Ast. Ala Thr Asp Ala Let Arr Dys Wal Ast. Ash Tyr Sit.

Hly Met Leo Lys Val All. Tys Ala Hlu Slu Trp Tin Slu Jer Arg Inr Thr Thr Asp Tyr Lys Gly Thr Leu Leu Gly Gly Ger Leu Lys Leu Lys 115 125 Val Val Pro Thr Thr Asp His Tie Asp Thr Glo Lys Leo Lys Ala Ary 136 140 Glu Oln fle Lys Phe Fhe Glu Glu Val Leu Leu Phe Glu Asp Glu Leu His Asp His Gly Val Ser Ser Leu Ser Val Lys Ile Arg Val Met Fro Ser Ser Phe Phe Leu Leu Leu Arg Phe Phe Leu Arg Ile Asp Gly Val Leu Ile Arg Met Asn Asp Thr Arg Leu Tyr His Glu Ala Asp Lys Thr 200 205 195 Tyr Met Leu Arg Glu Tyr Thr Ser Arg Glu Ser Lys Ile Ser Ser Leu Met Eis Val Pro Pro Ser Leu Phe Thr Glu Pro Asn Glu Ile Ser Gln 230 235 Tyr Ieu Pro Ile Lys Glu Ala Val Cys Glu Lys Leu Ile Phe Pro Glu 250 Arg Ile Asp Pro Asm Pro Ala Asp Ser Glm Lys Ser Thr Glm Val Glu 265 S2105 60 KD115 1916 <212> DNA & 213% Homo sapions <22.00 S K2219 CDS K0225 117 ...932 at interaction of objects transported introducing algoridation expension (0,0)apparagram in autobach in attachna had betitah adapt makke tibaden and IIB and the east are the carriage age taken in date the function during the Lie High Rey Chr. Our Ser High Art Asp. The Type High Riy Error this gain of a gain grant on gain and have can at most an authorization and date of  $t \in \mathbb{C} \mathbb{N}^n$ Try Tys Ion The Ala Cer Tys The His Tie Met Tys Ser Ala Asp Valo

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<2135 Homo sapiens

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Met Asn Arg Leu Phe Gly Lys Ala Lys Pro Lys Ala Pro Pro Pro Ser 1 15

Len Thr Asp Cys lie Gly Thr Val Asp Ser Arm Ala 31m Ser Ile Asp

Lys Lys lie Ser Arr Len Asp Ala Hu Leo, Val Lys Lyr Lys Asp Hu  $35^{\circ}$  .  $47^{\circ}$ 

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Asp Glu Asp	Ser 180	Ser	Tyr	Leu	Asp	Glu 185	Ala	Ala	Ser		Erc 190	Ala	lle	
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Asp Jer	Gln Vai	Asn Asp 195	Gly leb	165 Met Thr	Thr Ara	Fro	Leu Leu 200	Met 185 Leu	170 Trp	Ala The	Ala Asn	Tyr Val 205	Arg 190 Jer	775 Thr	His Ast
Asp Ser Leu	Gln Val	Asn Asp 195 Asp	Gly leb Pro	165 Met Thr Tyr	Thr Ard His	Fro Let	Leu Leu 200 Asn	Met 185 Let	170 Trp Thr	Ala Phe Leu	Ala Asn His 221	Tyr Val 205 Trp	Arg 190 Ser Ala	Thr Val Val	His Ast
Asp Ser Leu Ala 325	Gin Val Gly 317 Gly	Asn Asp 195 Asp	Gly 160 Pro	165 Met Thr Tyr	Thr Ard His Val 230	Fro Let	Leu 200 Asn Ser	Met 185 Leu Thr	170 Trp Thr Ala Len	Ala Phe Leu Leu Las	Ala Asn Bis 201	Tyr Val 205 Trp	Arg 190 Ser Ala	105 Thr Val Val	His Ash Leu Ash 240
Asp Ser Leu Ala 325 Val	Gln Val Sly Sly Asp	Asn Asp 195 Asp Asn Ala	Gly 180 Fro Lys	165 Met Thr Tyr Thr Asn 145	Thr Ara His Val 230	Fro Lew Lys 215 116	Leu Leu 200 Asn Ser 317	Met 185 Leu Thr Leu	Trp Thr Ala Let	Ala Phe Desi Les 235	Ala Asn His 221 Glu	Tyr Val 205 Trp Ala	Arg 190 Ser Ala Gly Leu	Thr Val Val Ala	His Ash Lou Ash 240
Asp Ser Leu Ala 325 Val	Gin Val Giy Ciy Ass Ass	Asn Asp 195 Asp Asn Ala	Gly leb Pro Lys Thr Uln	165 Met Thr Tyr Thr Asn 145 V:1	Thr Ard His Val 230	Erc Lew Lys 118 118 Lys	Leu Leu 2000 Asn Ser	Met 185 Leu Thr Leu Ast	Trp Thr Ala Let 250 Hir	Ala Phe Des Les Les Les Les Les Les	Ala Asn His 221 Glu Let	Tyr Val 205 Trp Ala Asy Sin	Arg 190 Ser Ala Gly Len	Thr Val Val Ala Ala	His Ash Leu Ash 240 Tys
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Leu	Ala	Glu	Thr 420	Gly	Ser	Leu	Asp	Leu 425	Ser	Ile	Phe	Cys	3er 430	Thr	Sys
Leu	Ile	Arg 435	Lys	Pro	Val	Arg	Ser 440	Lys	His	Суѕ	Gly	Val 445	Cys	Asn	Arg
Cys	Ile 450	Ala	Lys	Phe	Asp	His 455	His	Cys	Pro	Trp	Val 460	Gly	Asn	Cys	Vál
Gly 465	Ala	Gly	Asn	His	Arg 470	Туr	Phe	Met	Gly	Tyr 475	Leu	Phe	Phe	I.eu	Leu 480
Phe	Met	Ile	Cys	Trp 485	Met	Ile	Tyr	Glγ	Cys 490	Ile	Ser	Tyr	Trp	Gly 495	Leu
His	Cys	Glu	Thr 500	Thr	Tyr	Thr	Lys	Asp 505	Gly	Phe	Trp	Thr	Tyr	Tle	Thr
Bln	He	Ala 515	Thr	Cys	Sor	Fre	Trp 520	Met	Pho	Trp	Met	Phe 525	Len	Asn	der
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rgo tip gtg ind ott into can boa gaip gaa ato aaa ood caa ago bat । अ Ny Tys Val Fro Leo Leo His Pro Glo Slu Ile Lys Pro Glo Cer His 15 21 25
tat aac cat gga tat ggt gaa cot ctt gga cgg aaa act cat att gat = 149 Tyr Asn His Gly Tyr Gly Glu Pro Leu Gly Arg Lys Thr His Ile Asp 30 35
gat tac ago aca tgg gac ata gto aag got aca caa tat gga ata tat. 193 Asp Tyr Ser Thr Trp Asp Ile Val Lys Ala Thr Gln Tyr Gly Ile Tyr 45 50 55 60
gaa ogo tgt oga gaa ttg gtg gaa goa ggt tat gat gta ogg baa oog 241 Glu Arg Cys Arg Glu Leu Val Glu Ala Gly Tyr Asp Val Arg Gln Pro 65 70 75
gac aaa gaa aat gtt acc ctc ctc cat tgg gct gcc atc aat aac aga 289 Asp Lys Glu Asn Val Thr Leu Leu His Trp Ala Ala Ile Asn Asn Arg 80 85 93
ata gat tha gtc asa tac tat att tcg asa ggt gct att gtg gat cas 337 Ile Asp Leu Val Lys Tyr Tyr Ile Ser Lys Gly Ala Ile Val Asp Gln 95 100 105
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Met Gln Arg Glu Glu Gly Phe Asn Thr Lys Met Ala Asp Gly Pro Asp 1 10 15

Glu Tyr Asp Thr Glu Ala Gly Cys Val Pro Leu Leu His Pro Glu Glu 20 25 30

Ile Lys Pro Gln Ser His Tyr Asn His Gly Tyr Gly Glu Pro Leu Gly 35 40

Ang Lys Thr His Ile Asp Asp Tyr Ser Thr Trp Asp Ile Val Lys Ala 50  $^{\circ}$ 

Thr Olm Tyr Gly lie Tyr Glu Arg Cys Arg Glu Leu Val Glu Ala Gly -65

Tyr Asp Val Arg 31n Pro Asp Lys 31n Asn Val Thr Leu Leu His Trp 95 97

Ala Ala (le Ash Ash Aru (le Asp Leu Val Lys Tyr Tyr (le Ser Lys 100 100)

Nly Ala lie Wal Asp Glm Lew Nly Nly Asp Lew Ash Ser Thr Fr (188) 115 - 127

His Trp Ala Thr Ara Sin Sty His Len Ser Met Val Val Sin Leu Met

lys Dyn Hly Ala Asp Errover Len Ille Asp Oly Sin Ely Dys Jer Dys 145 - ISB - ISB

tioners for Ala Ala Bin Bio Bly Bio Thr Der Tio Mai Ala Tyr Den 185

11) All Type Bly Bln Asq. Mal. Asq. Met. Met. Asq. Bln Ash. Bly Met. The 18

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<sup>&</sup>lt;211> 632

<sup>4212:</sup> PRT

<sup>3213&</sup>gt; Homo sapiens

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1.4.	Design		Tirr		Ast.		."⊹:	T a l	A.c.		Hly 	ĀĄ	Lys	Ty:	Hill
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gly	Val	Trp	Ala 340	Thr	Val	Gln	Phe	Leu 345	Ser	Lys	Ser	Phe	Phe 350	Asp	His
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Pro Pro Lys Asn Ile Val Ala Ser Gly Arg Thr Asn Gin Ser Ile Met 115 120

Val Gln Trp Gln Pro Pro Pro Glu Thr Glu His Asn Gly Val Leu Arg 135 140

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		aaa aaa gtt Lys Lys Val 45				258
		cca gga aaa Pro Gly Lys 60				306
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Lys Cln Met Gln 275	Glu Glu Phe	Gln Glu Hi 280		Gln Leu Let 285	: Ser
Arg Ala Lys Pro 190	Glu Asp Arg 295		u Lys Ser . 300	Ala Cys Val	. Val
Cys Leu Ser Ser 305	Phe Lys Ser 310	Cys Val Ph	e Leu Glu 315	Cys Gly His	320
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